

JUN 21 2006

Serial No. 10/037,852
63428-063

IN THE CLAIMS

1-4. (CANCELLED)

5. (PREVIOUSLY PRESENTED) The robotic arm as recited in claim 13 wherein said pair of sockets are made of aluminum.

6. (PREVIOUSLY PRESENTED) The robotic arm as recited in claim 13 wherein each of said pair of sockets cover more than one half of a surface area of one of said balls.

7-9. (CANCELLED)

13. (PREVIOUSLY PRESENTED) A robotic arm comprising:
a ball and socket assembly including:

a socket component including a first clamp half and a second clamp half secured together to form a pair of sockets, said socket component including a bottom surface and a pair of faces each inclined relative to said bottom surface; and

a pair of ball components each including an arm and a ball, wherein each of said balls is received in one of said pair of sockets.

14. (PREVIOUSLY PRESENTED) The robotic arm as recited in claim 13 wherein said balls have a ball diameter of approximately 1.75 inch and said arms have an arm diameter of approximately 1.25 inch.

15. (PREVIOUSLY PRESENTED) The robotic arm as recited in claim 13 wherein said balls are made of a ball material and said pair of sockets are made of a socket material, wherein said ball material is harder than said socket material.

Serial No. 10/037,852
63428-063

16. (PREVIOUSLY PRESENTED) The robotic arm as recited in claim 13 wherein said first clamp half and said second clamp half are secured together by a pair of bolts located between said pair of sockets.

17. (PREVIOUSLY PRESENTED) The robotic arm as recited in claim 13 wherein said first clamp half and said second clamp half are secured together by four bolts, one of said four bolts being located over one of said pair of sockets, another of said four bolts being located under said one of said pair of sockets, one of said four bolts being located over the other of said pair of sockets, and one of said four bolts being located under said other of said pair of sockets.

18. (PREVIOUSLY PRESENTED) The robotic arm as recited in claim 13 wherein a gap is defined between said first clamp half and said second clamp half.

19. (PREVIOUSLY PRESENTED) The robotic arm as recited in claim 13 wherein said robotic arm includes a plurality of ball and socket assemblies.

20. (PREVIOUSLY PRESENTED) The robotic arm as recited in claim 13 wherein an angle defined between each of said pair of faces and a plane defined by said lower surface is approximately 75°.

21. (ORIGINAL) The robotic arm as recited in claim 13 wherein said balls are serrated.

22-26. (CANCELLED)

27. (PREVIOUSLY PRESENTED) The robotic arm as recited in claim 13 wherein each of said pair of sockets expose a portion of one of said balls.

28. (CANCELLED)

Serial No. 10/037,852
63428-063

29. (PREVIOUSLY PRESENTED) The robotic arm as recited in claim 13 wherein said arm of each of said pair of ball components has a range of motion of 90°.

30. (PREVIOUSLY PRESENTED) The robotic arm as recited in claim 18 wherein said gap is adjustable.

31. (CANCELLED)

32. (CURRENTLY AMENDED) The robotic arm as recited in claim 13 wherein one of said arms can be pivoted relative to ~~while the other of said arms is locked in a fixed position.~~

33. (PREVIOUSLY PRESENTED) The robotic arm as recited in claim 13 wherein movement of one of said balls in one of said pair of sockets pivotally adjusts a position of said arm.